Team K

SwithS:

Sungkyunkwan University's
study integration platform

김일건, 김이지
정노원, 신경준

Final presentation :

01. Motivation & Objective
02. Project progress & Role of each member
03. Final Design
04. Final Implementation
05. Challenges
06. Limitation
07. Evaluation
08. Demo

01. Motivation & Objective

01. Motivation & Objective

- **Motivation**

1. Students at SKKU use various platforms such as Everytime, Kakao Talk, and Naver Cafe for the one study. **(Inconvenience)**

2. There is no platform specifically designed for SKKU students. **(Challenges in recruiting study related to SKKU)**

01. Motivation & Objective

- **Objective**

1. Becoming the official study platform of SKKU.

2. Going beyond study recruitment, creating an environment where students can share knowledge.

02. Project progress & Role of each member

02. Project progress & Role of each member

- **Project progress**

Task	Assignee	W5	W6	W7	W8	W9	W10	W11	W12	W13	W14	W15	W16
Individual study and project setting	Every Members												
Figma design	Frontend												
DB design & back API creation	Backend												
Web Page Development	Frontend												
API Development	Backend												
Testing and optimization	Every Members												
Deployment	Infra												

02. Project progress & Role of each member

- **Role of each member**

- **김일건** - Project Management, API development, Frontend, API Connection

- **김이지** - Figma design, Frontend page development, API Connection

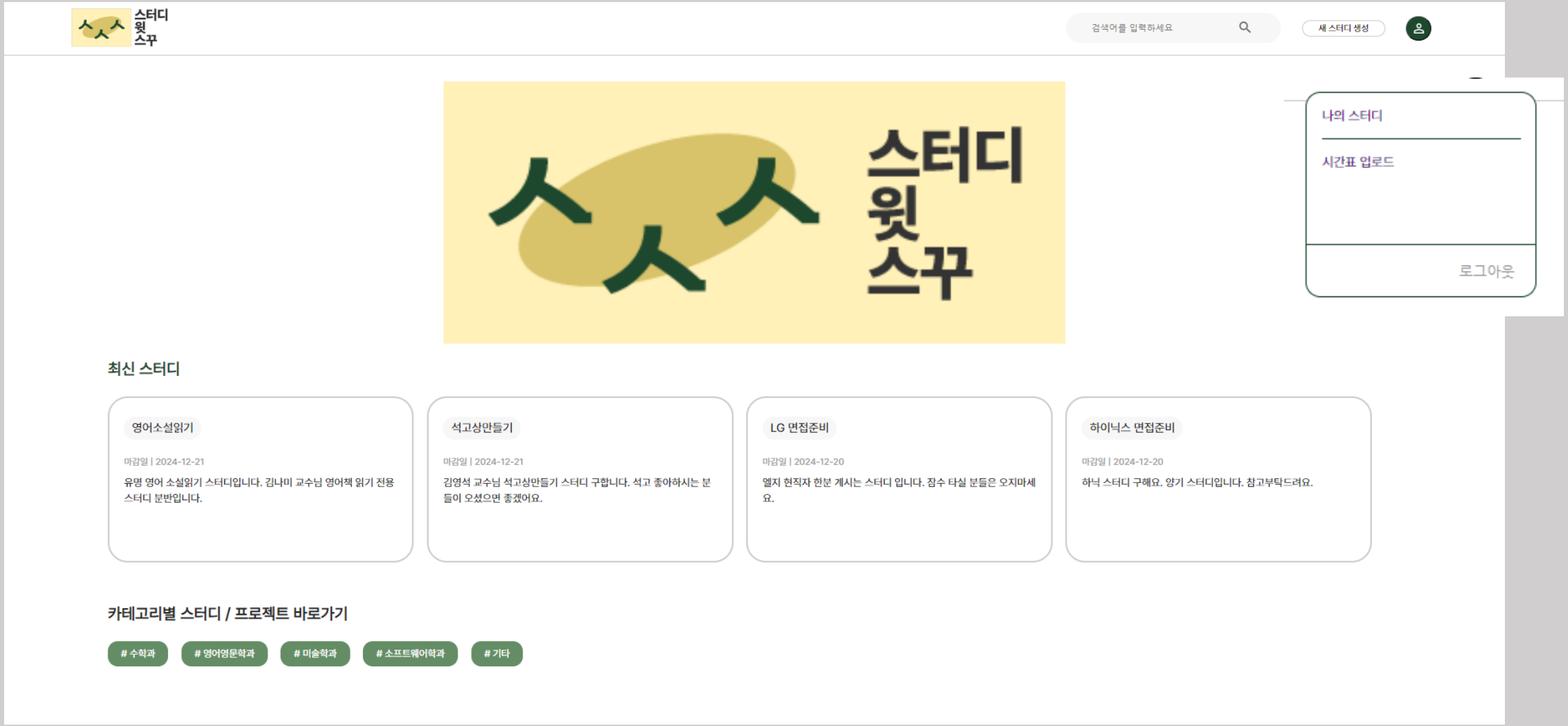
- **신경준** - API statement write, API development, entity creation

- **정노원** - DB schema design, Crawling API creation

03. Final design

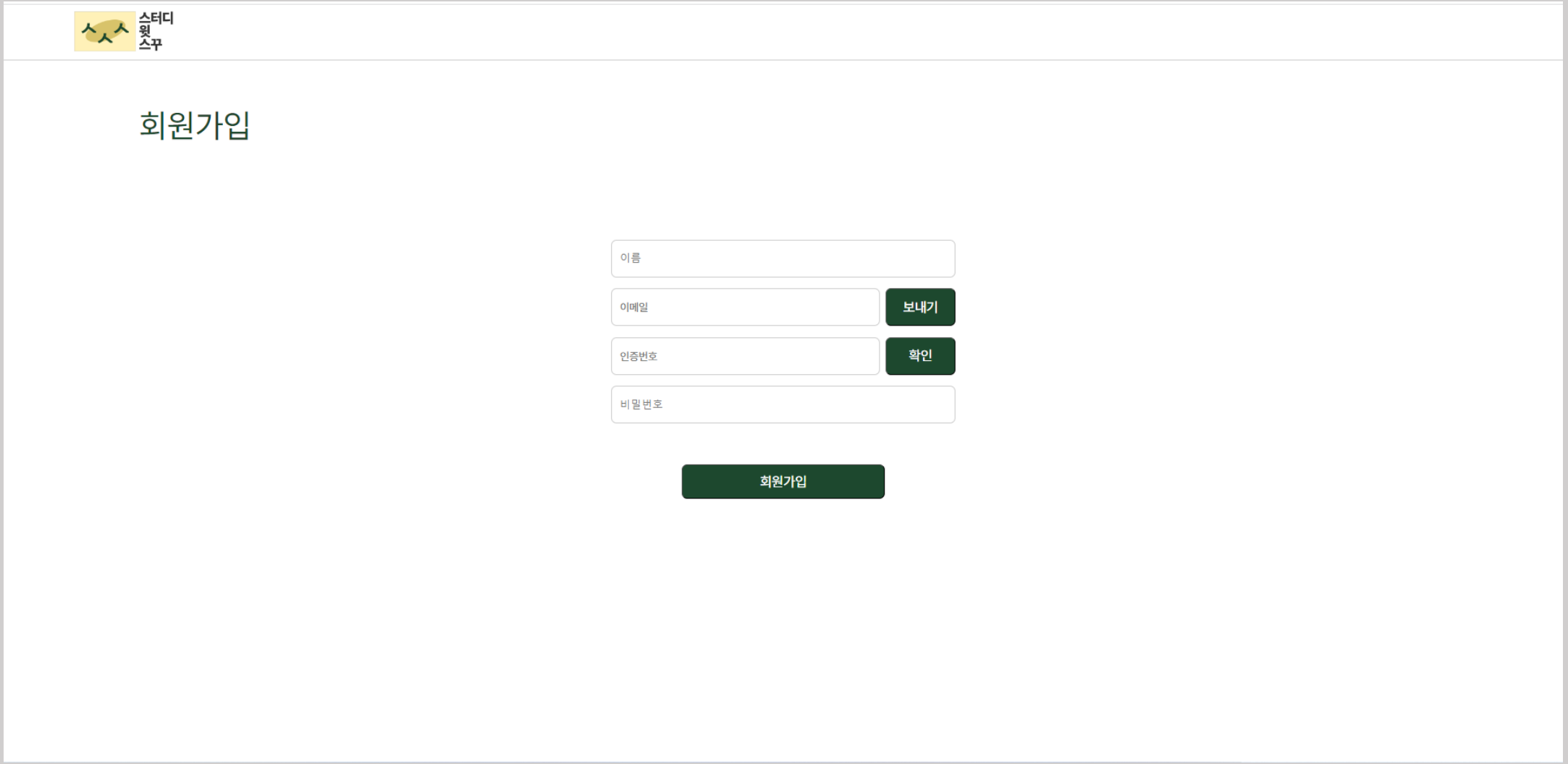
03. Final design

Main Page



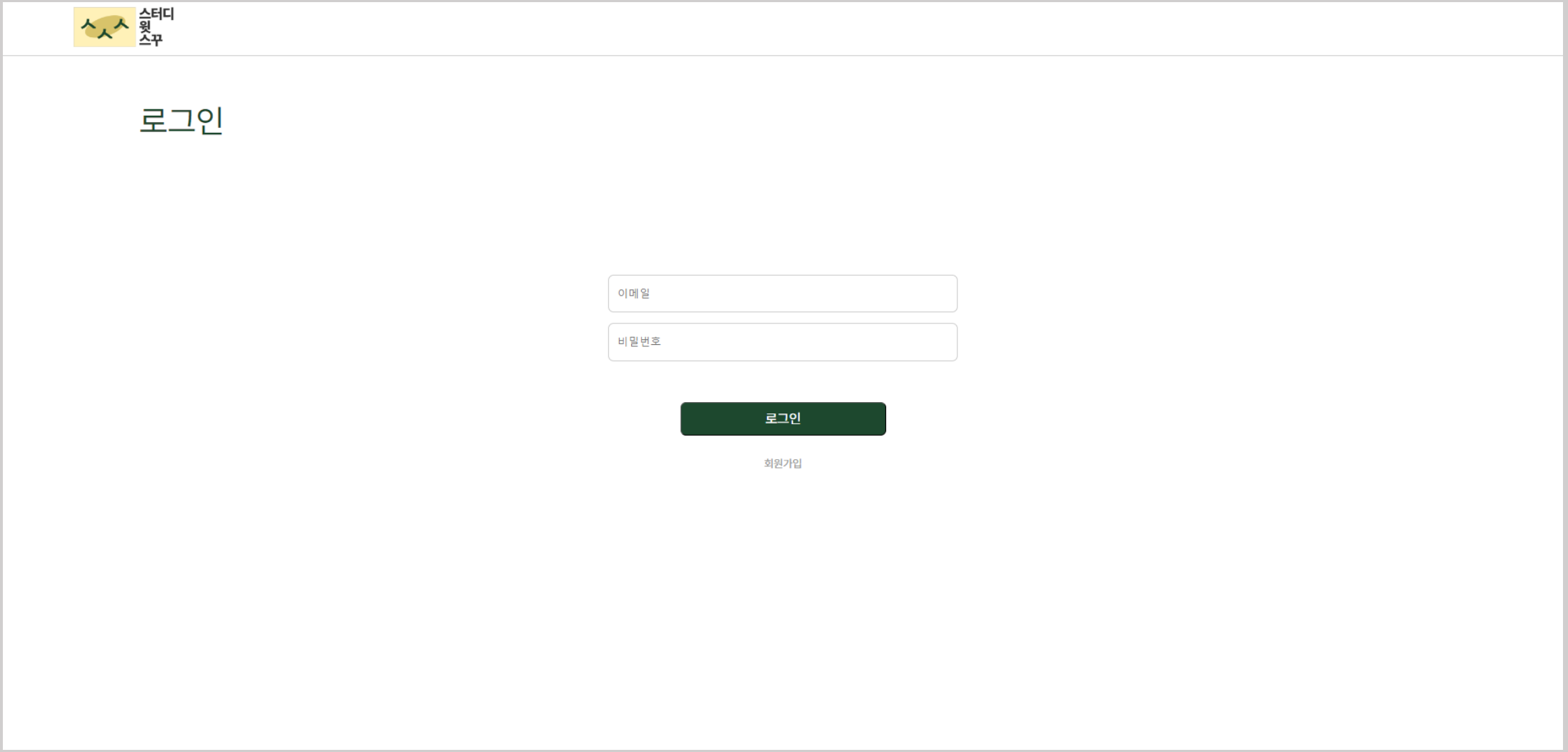
03. Final design

Register Page



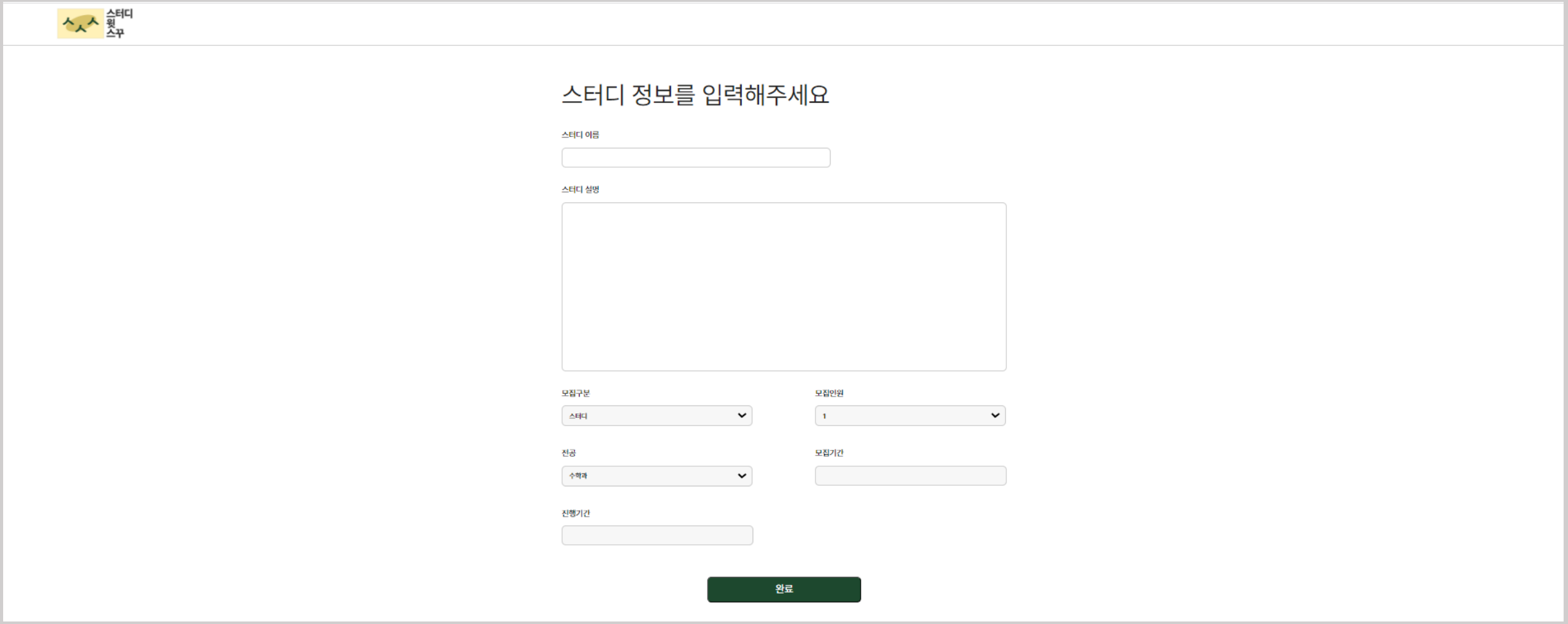
03. Final design

Login Page



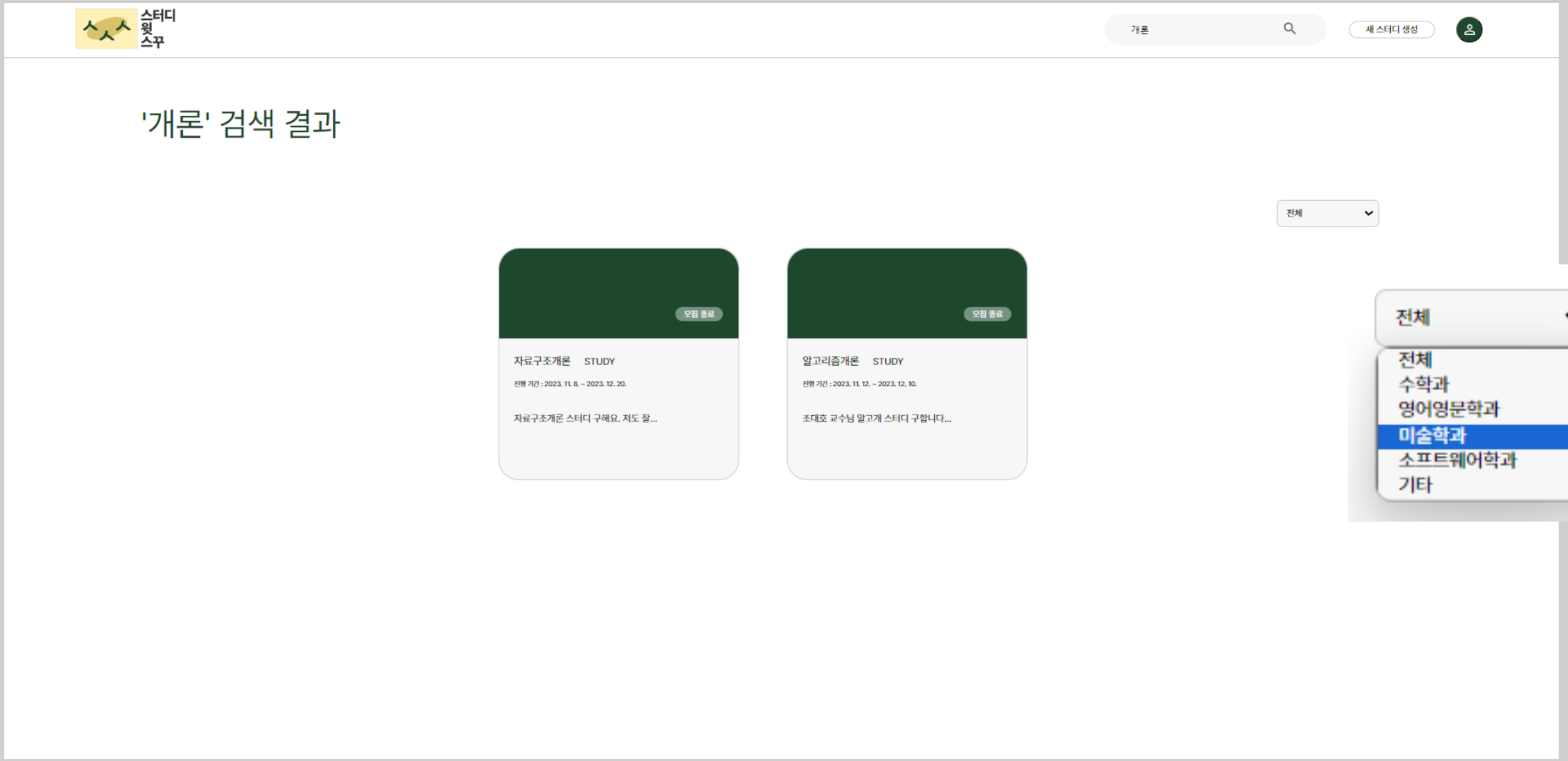
03. Final design

Post Page



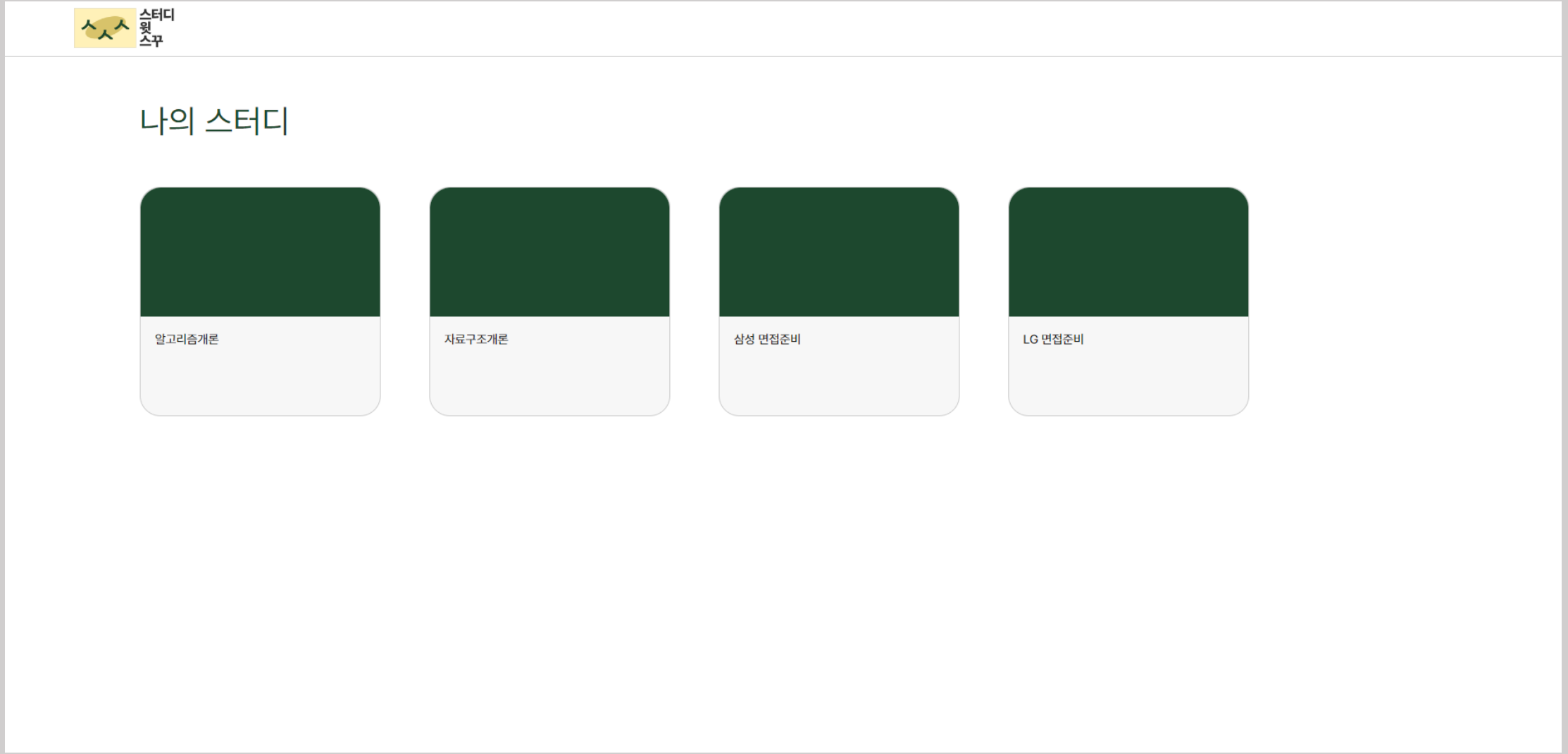
03. Final design

Search Page



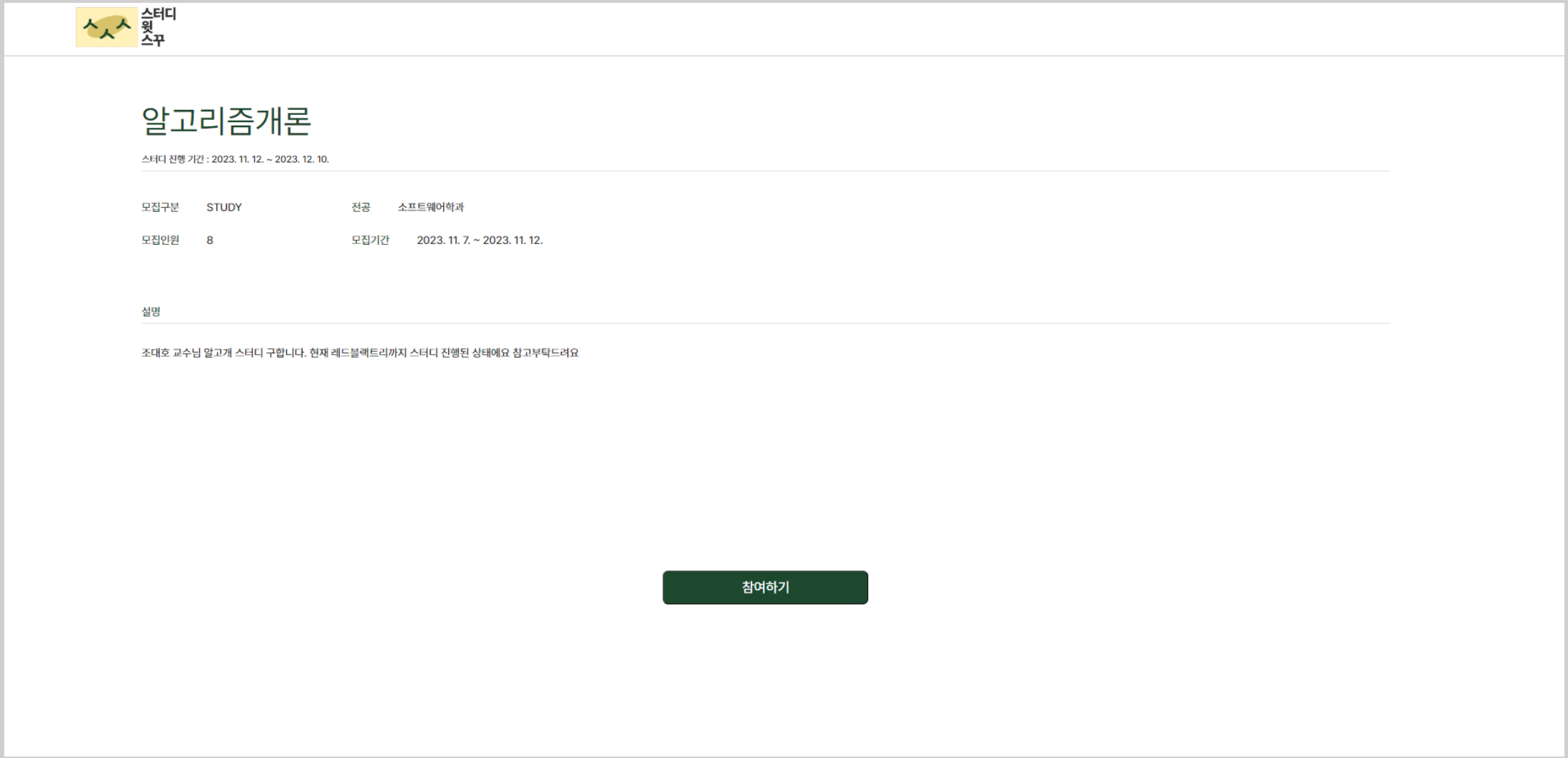
03. Final design

Studyroom Page



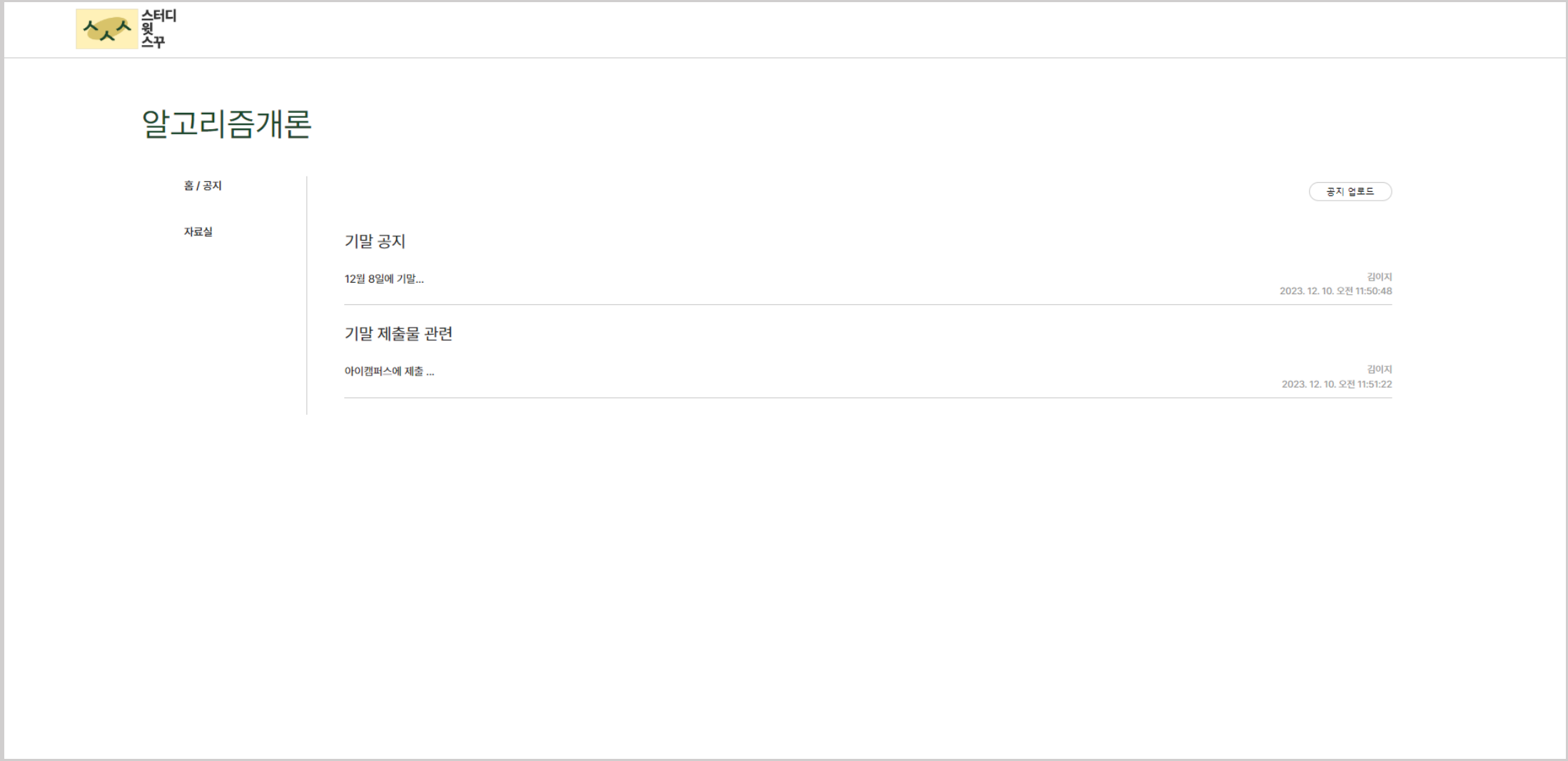
03. Final design

Studydetail Page



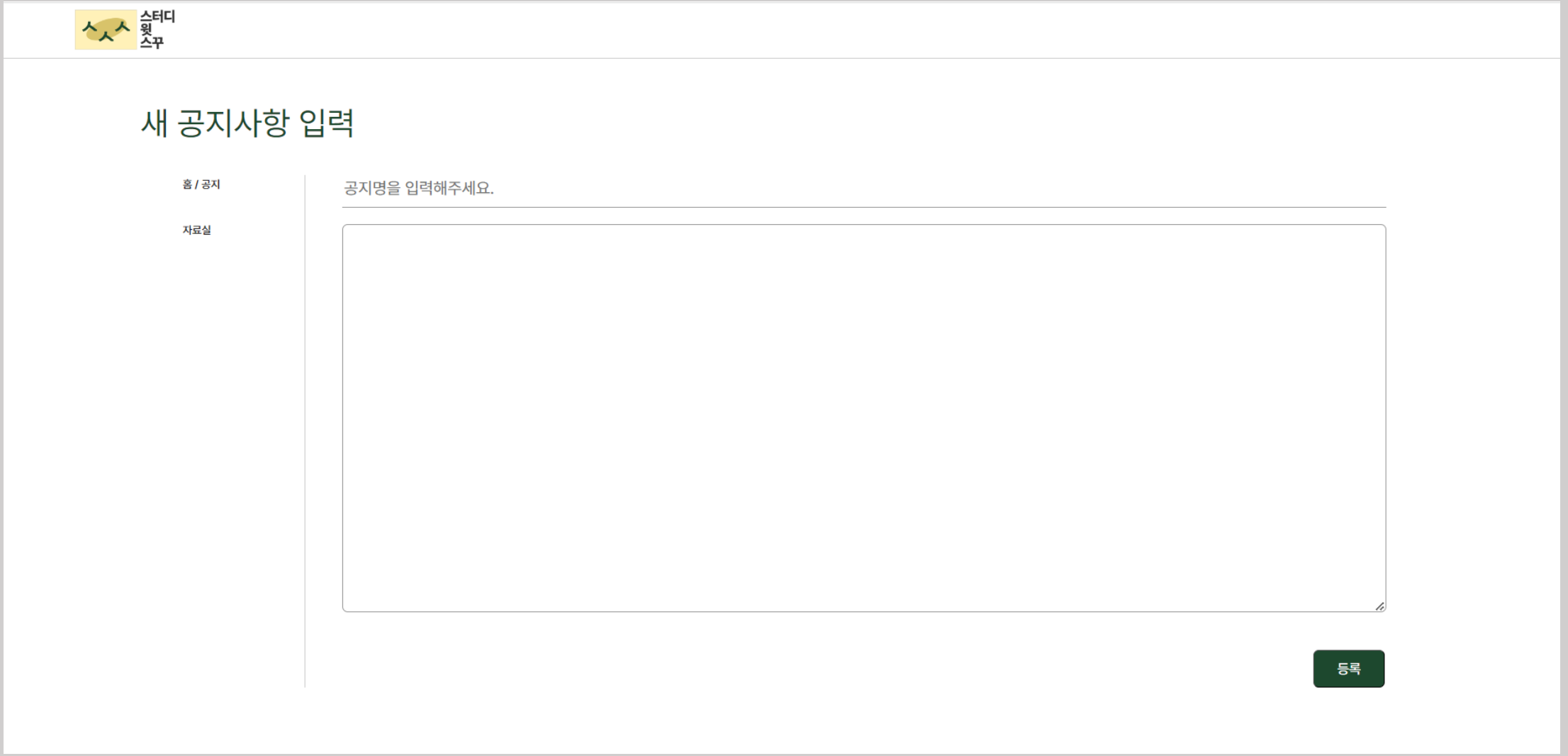
03. Final design

Notice Page



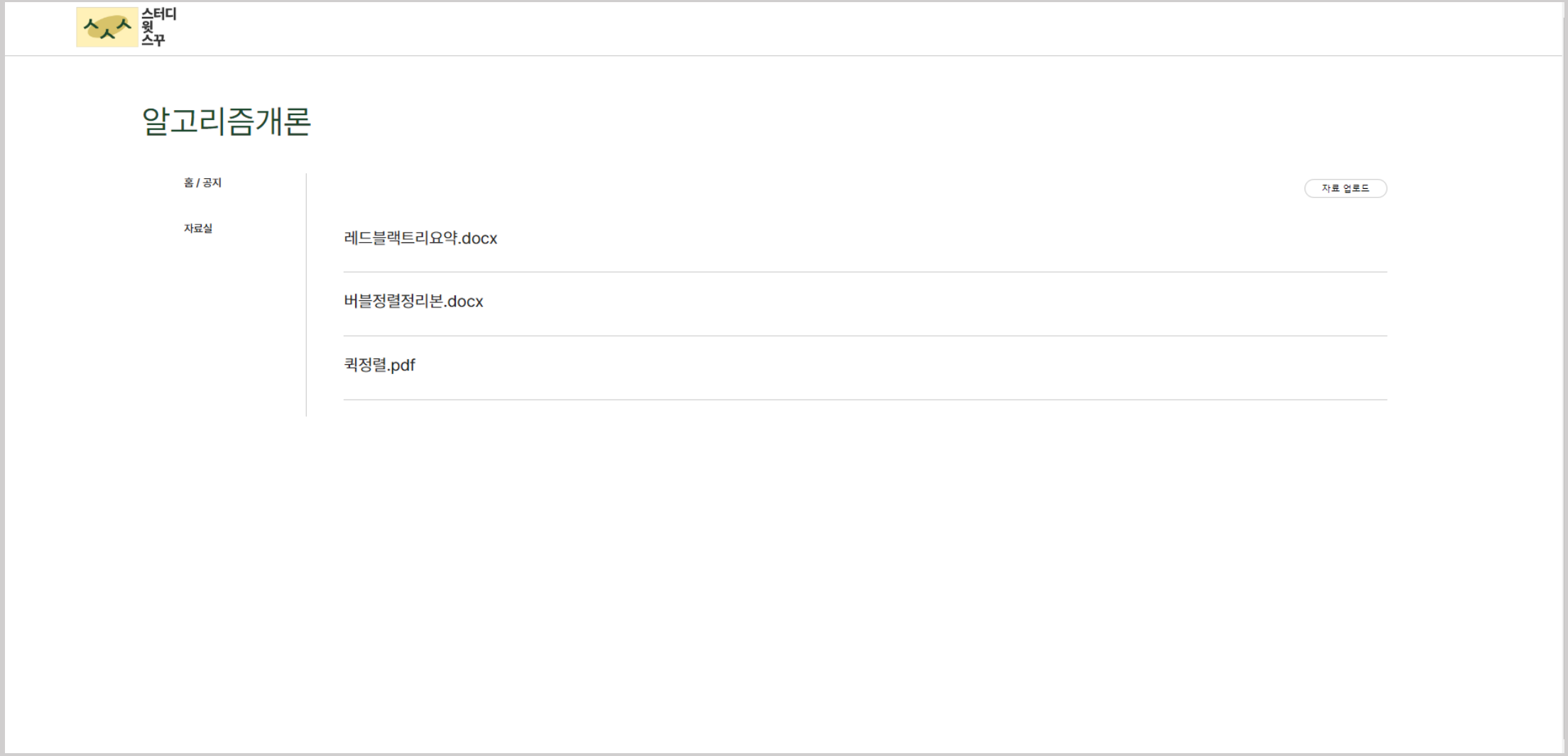
03. Final design

Notice upload Page



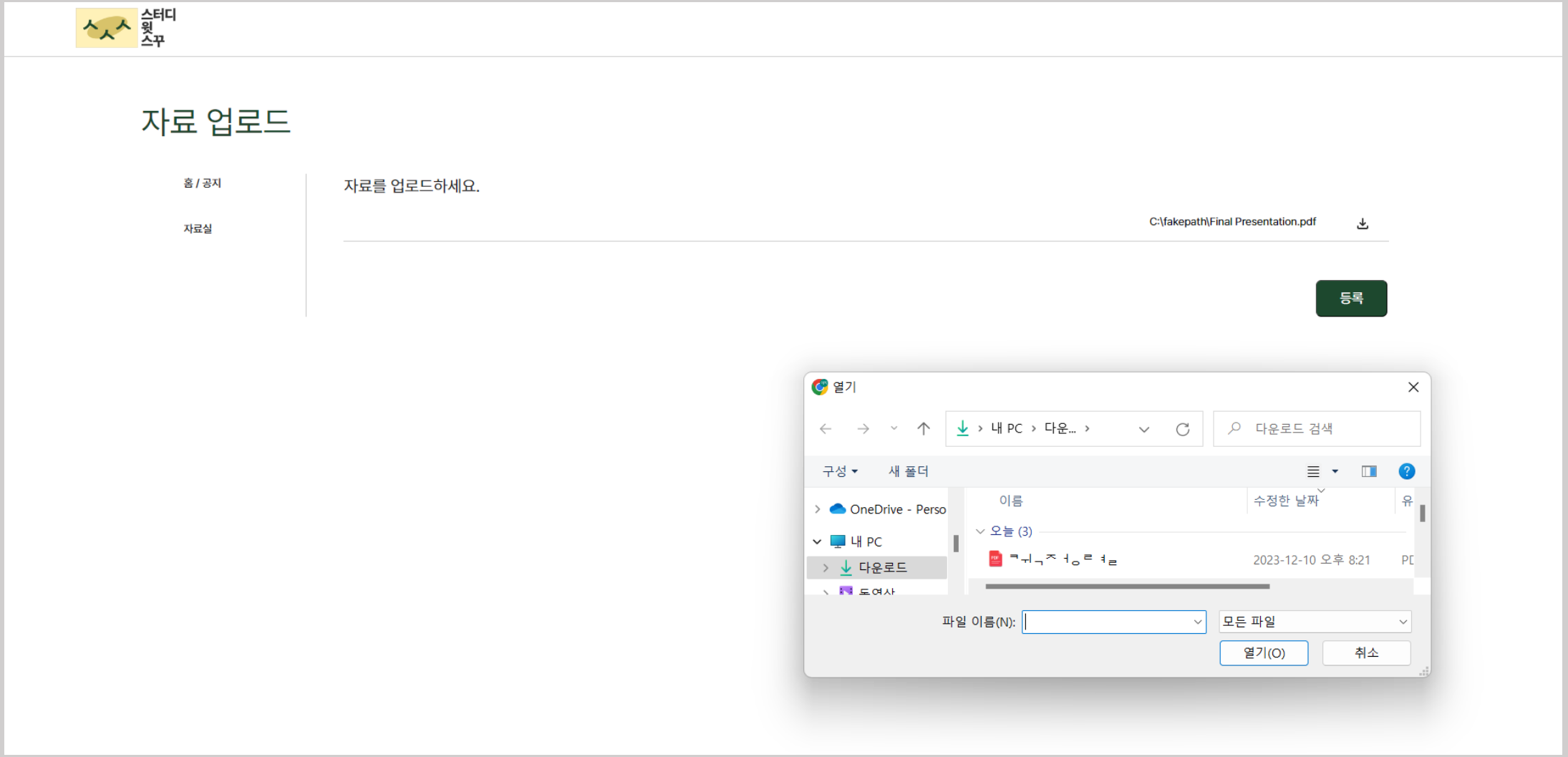
03. Final design

Resource Page



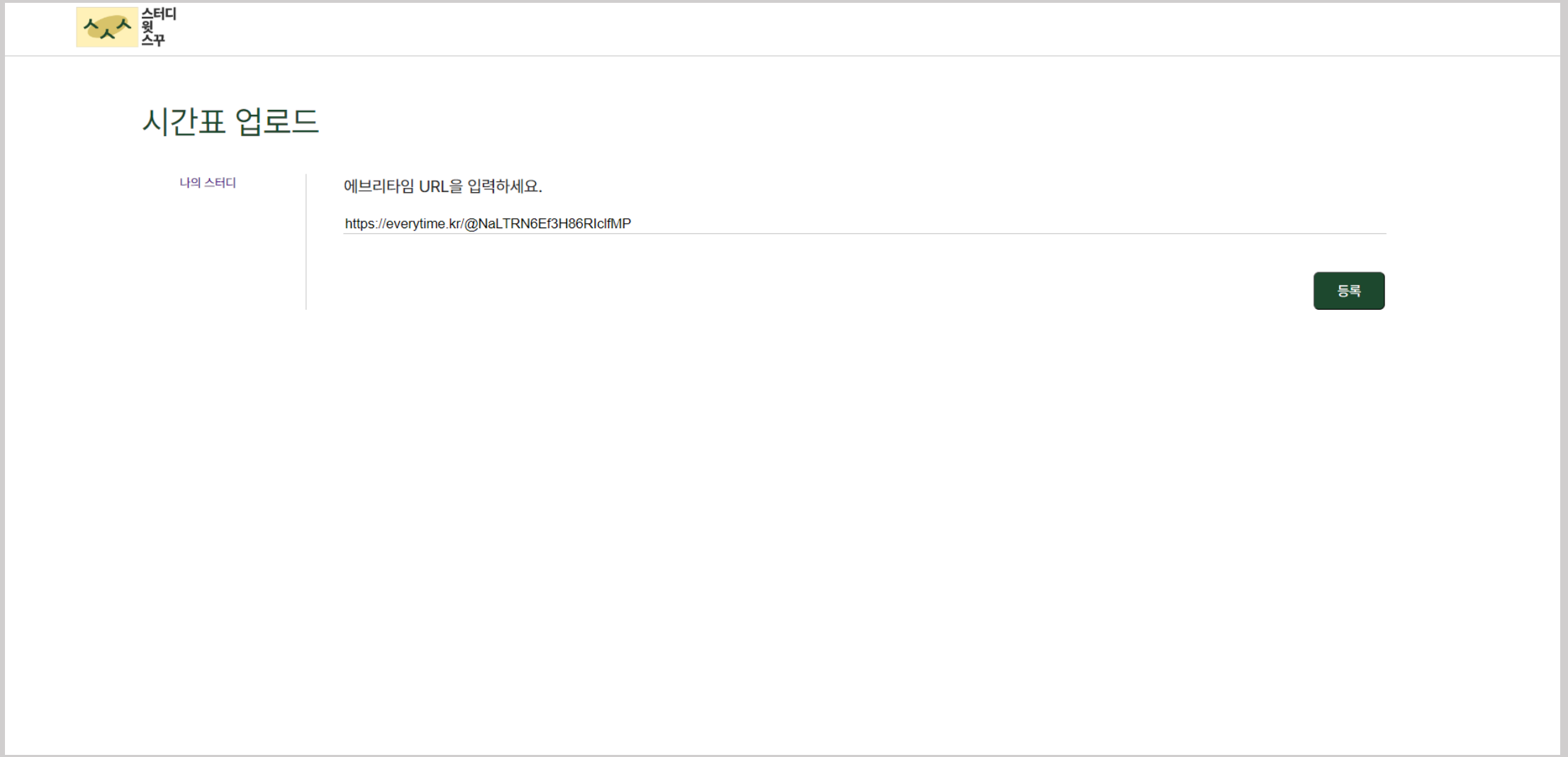
03. Final design

Resource upload Page



03. Final design

Schedule upload Page

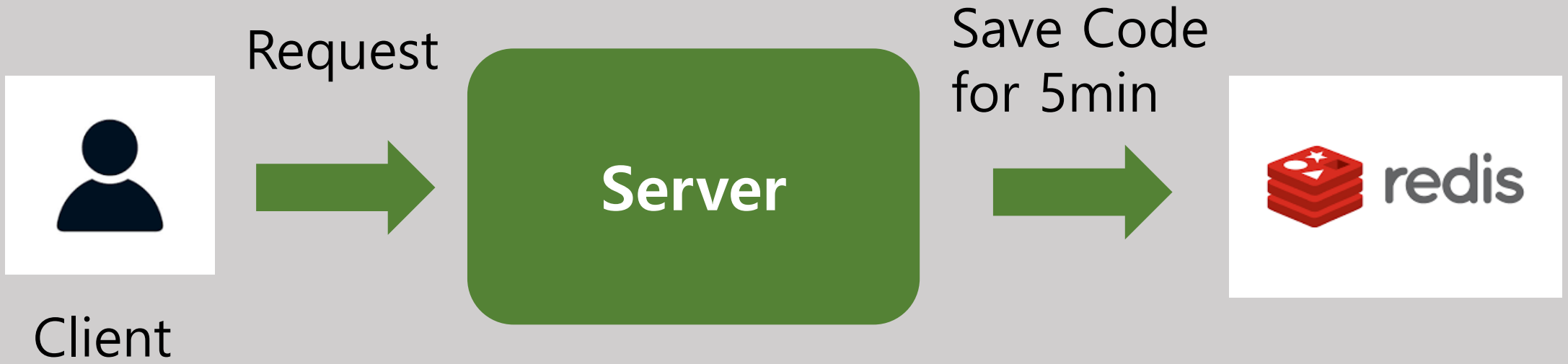


04. Final implementation

04. Final implementation

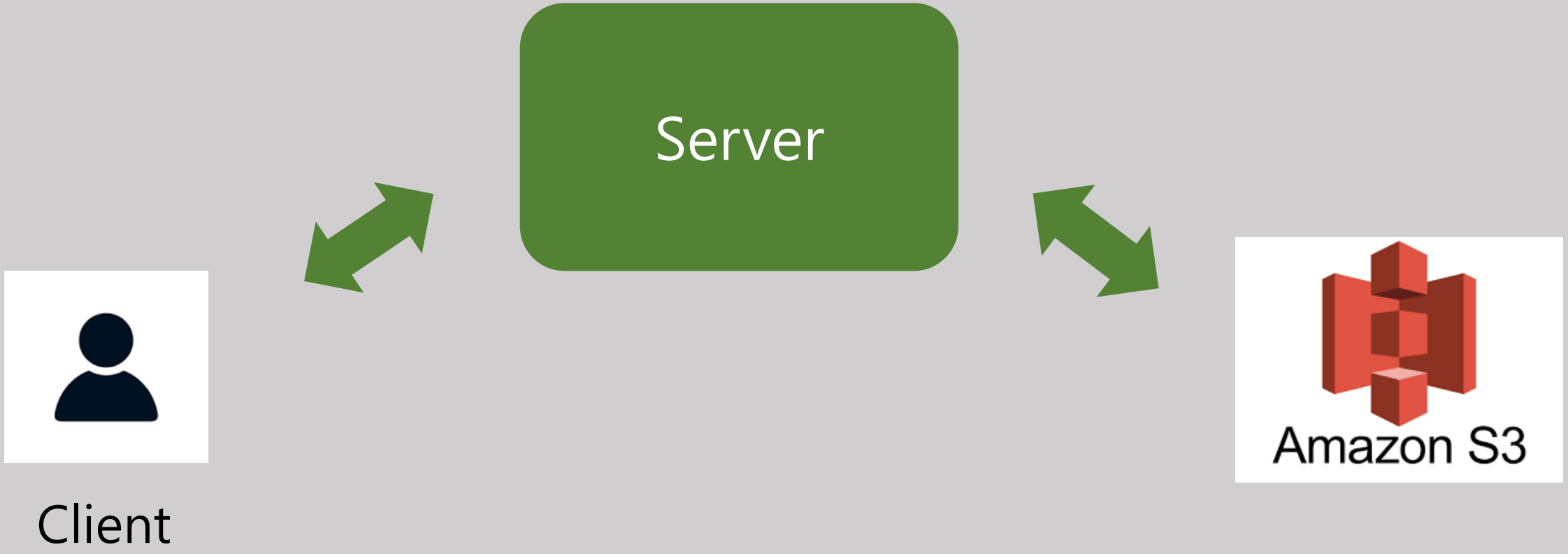
1. SMTP , Redis

Email service



04. Final implementation

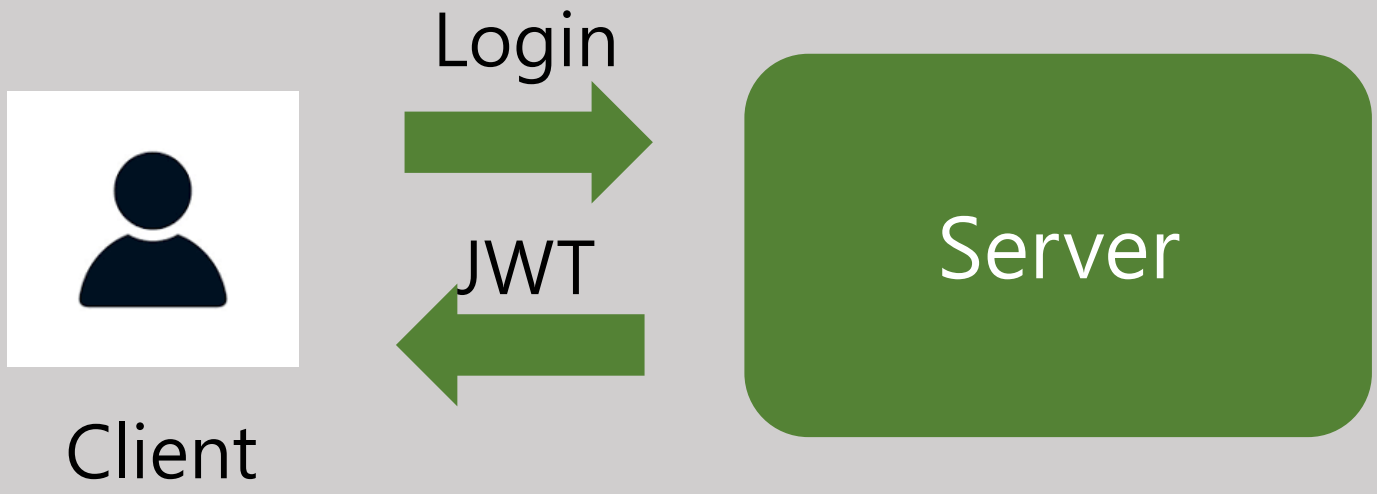
2. S3



Files and Images are stored in S3 Bucket, not DB

04. Final implementation

3. JWT



JWT

04. Final implementation

4. Selenium

05. Challenges

05. Challenges

- While generating and utilizing access keys in AWS, a mistake led to the inadvertent exposure of access keys in Git, posing a security threat.

We deleted access keys, and created an IAM account grant full permissions for S3, enhancing security.

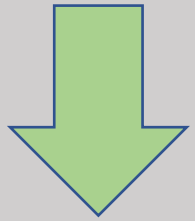
05. Challenges

- We established the API server, and while conventional APIs were functioning well, issues arose in the crawling algorithm.

Cause 1) Different OS (different file format)
Cause 2) GUI vs CLI
Cause 3) Installing Firefox using `apt-get`

05. Challenges

- We tried to use AWS EC2 **t2.micro(free tier)**
as an API server, but the resources were insufficient.
EC2 instance continues to stop.

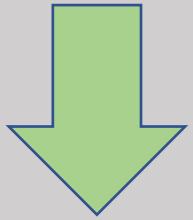


We tried to use the free instance as much as possible but failed. So, we decided used medium sized instance which is not free.

06. Limitation

06. Limitation

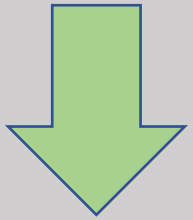
- The time management functionality for study meetings is still under development due to considerations for user convenience.



The backend and DB logic have been implemented.
In last weekly meeting, received feedback suggesting that referring to the UI and logic of when2meet could be helpful.

06. Limitation

- UI is not good when accessing from a mobile devices.



Implementing responsive design.

07. Evaluation

07. Evaluation

We **have almost completed** the development of the key features that we initially planned.

However, during the development, we **realized the need for some additional functions**(administrator management, account deletion, and information update).

07. Evaluation

The implementation of essential features **took more time than expected** to deploy Redis and S3 storage, **requiring additional effort and time** for technology understanding and integration.

As a result, moving forward, we **plan to develop additional functions** to enhance the overall completeness of the service!

08. Demo

Thank You

Happy Jong-gang ♥